

**MODEL PAPER “COMPUTER SCIENCE”**  
**Intermediate Part-II Examination 2008 & Onward**

**SUBJECTIVE**

Time: 2:10 Hours

Marks : 60

**SECTION-I**

**Q. No.1. Write any EIGHTEEN short answers (either from “Access & C-Language” or from “Access & Visual Basic”) of the following questions:**

**18x2 = 36**

**(Access & C-Language)**

- (i). Explain the term direct file?
- (ii). Write down any two disadvantage of Database System?
- (iii). Define the term Data Administrator?
- (iv). List down any two properties of a Relation?
- (v). What is Integrity Constraint?
- (vi). Define Transitive Dependency?
- (vii). Explain the Database Object Report briefly?
- (viii). What is Input Masks?
- (ix). Define Tabular Form briefly?
- (x). Explain **define** pre-processor directive with example?
- (xi). What is meant by Data Type of Expression?
- (xii). Define the term field-width specifier?
- (xiii). What are Escape Sequence Characters?
- (xiv). Trace the output of the following piece of code?

```
#include<stdio.h>
void main()
{
int c = 429;
printf(“c = %5d”,c);
}
```

- (xv). Trace the output of the following piece of code?

```
#include<stdio.h>
void main()
{
float f = 3.14159;
printf(“f = %3.2f”,f);
}
```

- (xvi). Trace the output of the following piece of code?

```
#include<stdio.h>
void main()
{
int a, b, c = 5;
= c++;
```

```

a = --b;
c = a > b ? a : b ;
printf("c = %d",c);
}

```

(xvii). Trace the output of the following piece of code?

```

#include<stdio.h>
void main()
{
    int i ;
    for( i = 10 ; i > 0 ; i -= 1 )
    {
        if ( i % 2 != 0 )
            printf("i = %d \n",i);
        else
            continue ;
    }
}

```

(xviii). Trace the output of the following piece of code?

```

#include<stdio.h>
void main()
{
    int j, k ;
    for( j = 1 ; j < 6 ; j = j + 1 )
    {
        for ( k = 0 ; k < j ; k++ )
        {
            printf( " + " );
        }
        printf( " \n " );
    }
}

```

(xix). Trace the output of the following piece of code?

```

#include<stdio.h>
void main()
{
    int i, s = 0 ;
    for( i = 10 ; i > 0 ; i -= 1 )
    {
        s += i ;
    }
    printf("\nSum is = %d",s) ;
}

```

(xx). Trace the output of the following piece of code?

```

#include<stdio.h>
void main()
{
    int i, j = 1 ;
    for( i = 10 ; i > 0 ; i -= 1 )
    {
        printf(" \n i = %d \t j = %d ", i , j ) ;
        j = j * 2
    }
}

```

(xxi). Trace the output of the following piece of code?

```

#include<stdio.h>
void main()
{

```

```

        int a, b ;
        a = 5 ;
        b = 10 ;
        a = a + b;
        b = a - b;
        a = a - b;
        printf ( “ a = %d ” , a );
        printf ( “ \n b = %d ” , b );
    }

```

- (xxii). Trace the output of the following piece of code?
- ```

#include<stdio.h>
void main()
{
    int i, p = 1 ;
    for( i = 1 ; i < 6 ; i += 1 )
    {
        p *= 2 ;
    }
    printf(“\np is = %d”,p) ;
}

```
- (xxiii). What is meant by signature of a function?
- (xxiv). Differentiate between function header & function declaration?
- (xxv). Differentiate between Local & Global variables?
- (xxvi). Write the prototype of **fopen** function used for opening a file?
- (xxvii). Explain “**a**” and “**w+**” modes of file opening?

**OR**  
**(Access & Visual Basic)**

- (i). Explain the term direct file?
- (ii). Write down any two disadvantage of Database System?
- (iii). Define the term Data Administrator?
- (iv). List down any two properties of a Relation?
- (v). What is Integrity Constraint?
- (vi). Define Transitive Dependency?
- (vii). Explain the Database Object Report briefly?
- (viii). What is Input Masks?
- (ix). Define Tabular Form briefly?
- (x). Differentiate between Properties & Methods?
- (xi). Describe KeyDown & KeyPress events of keyboard?
- (xii). Describe Hide & Unload Form methods?
- (xiii). What is Startup Form?
- (xiv). Differentiate between Implicit & Explicit declaration of a variable?
- (xv). Explain Right & UCase functions of string?
- (xvi). ExplainDlgDef argument of MsgBox function?
- (xvii). Explain System Specific Modality of Message Box?
- (xviii). Describe If...Then...Else structure?

- (xix). Describe DO...Until Loop?
- (xx). Explain the term Exit For with example?
- (xxi). Write names of any four Basic Activex Controls?
- (xxii). Differentiate between Label Box & Textbox controls?
- (xxiii). Define the term Table or Matrix with syntax?
- (xxiv). What is Control Array in Visual Basic?
- (xxv). Differentiate between Procedures & Functions?
- (xxvi). Differentiate between passing Arguments by Reference and by Value?
- (xxvii). Define the term Definition Header?

## **SECTION-II**

### **(MS Access)**

**Note: Write any ONE question:**

**8**

- Q.No2.** What is meant by Data Distribution strategy? Discuss all Basic Data Distribution Strategies briefly.
- Q.No.3.** Define the various types of Queries briefly.

## **SECTION-III**

**Note: Write any TWO descriptive answers (either from “C-Language” 2x8 = 16 or from “Visual Basic”) of the following questions:**

### **(C-Language)**

- Q.No4.** Define the term “Bug” also discuss three types of programming errors with examples.
- Q.No5.** What is meant by “Control Structure”? Explain **switch** structure with example.
- Q.No6.** Define the term “Function” and write a function which accepts an integer Type value and displays the table of that number received as argument, prototype of the function is as follow **void Table ( int );** .

**OR**

### **(Visual Basic)**

- Q.No4.** Define the term Expression. How many types of Expressions are available in Visual Basic explain Logical Expression in detail?
- Q.No5.** Write the Run-Time features of MDI Child Forms?
- Q.No6.** Write a program that displays a Text box & a Button. The user inputs password in the Text box, the program should validate the password by using “Tag” property of the Text box.

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Roll No. \_\_\_\_\_  
In Figures \_\_\_\_\_  
In Words \_\_\_\_\_

**OBJECTIVE**

**Time : 20 Minutes**

**Marks : 15**

**Note: Write your Roll No. in space provided. Over-writing, Cutting, Erasing, Using lead pencil will result in loss of marks.**

**Q.No.7. Each question has four possible answers. Choose the correct answer and encircle it. 15**

- (i). Which of the following may be a temporary file:  
(a) Master file      (b) Transaction file      (c) Backup file      (d) All
- (ii). Which of the following is not a database management system:  
(a) MS-Access      (b) MS-SQL      (c) Oracle      (d) None of these
- (iii). A relation is also known as :  
(a) Tuple      (b) Table      (c) Relationship      (d) Attribute
- (iv). In 3NF, which form of dependency is removed:  
(a) Functional      (b) Non-functional      (c) Associative      (d) Transitive
- (v). The output of a query is in the form of a:  
(a) Form      (b) Table      (c) Report      (d) Page
- (vi). A form within another form is called:  
(a) Sub form      (b) Child Form      (c) Parent Form      (d) Multi form
- (vii). Pre-processor directives are commands for:  
(a) Microprocessor      (b) Pre-processor      (c) Compiler      (d) Linker
- (viii). Which of the following is not a valid C Statement:  
(a) char ch = 'a' ;      (b) char ch = 'ab' ;      (c) char ch = 97 ;      (d) char ch = "a" ;
- (ix). In C language which escape sequence can be used to move the cursor at the beginning of current line on console (output window):  
(a) '\a'      (b) '\b'      (c) '\t'      (d) '\r'
- (x). Which of the following is equivalent to ! (p >= q):  
(a) p < q      (b) p > q      (c) ! p < q      (d) ! p >= q
- (xi). In C language two conditions can be joined by using:  
(a) Arithmetic operators      (b) Relational operators  
(c) Logical operators      (d) Bitwise Operators
- (xii). Which statement is used to move the control to the start of loop body:  
(a) continue      (b) break      (c) goto      (d) skip
- (xiii). Which of the following looks for the prototype of function used in a program:  
(a) Pre-processor      (b) Compiler      (c) Linker      (d) Loader
- (xiv). Which of the following is incorrect about functions:  
(a) A function can call another function  
(b) A function can be called many times in a program  
(c) A function can be defined within another function  
(d) A function's prototype can be specified within another function
- (xv). Which of the following function is used to read a character from a file:  
(a) getc()      (b) putc()      (c) fgets()      (d) fputs()